

Appendix  
Summary Description of Exemplary Claim Support

The following tables cite non-limiting examples of support in the specification for each term or phrase in each claim. Support for these claims may also be found elsewhere in the specification, as would be understood by one of skill in the art. Support for terms in a dependant claim is not provided if the terms are included in a claim upon which the claim depends.

12. An ultra high molecular weight polyethylene block having a molecular weight of not less than about 5 million, having been crosslinked by irradiation at a level of at least about 1 MR and having been heated, subjected to pressure, and cooled.

Word/Phrase	Support	
	Column	Line
<b>ultra high molecular weight polyethylene</b>	1 2	<b>8 - 11</b> <b>43 - 46</b>
<b>block</b>	<b>3</b>	<b>25 - 26</b>
<b>molecular weight of not less than about 5 million</b>	1 2 3	<b>67</b> <b>4</b> <b>22-24</b>
<b>crosslinking by irradiating</b>	2 3 4	<b>47-52</b> <b>27 - 67</b> <b>1 - 3</b>
<b>1 MR</b>	<b>5</b>	<b>46</b>
<b>heating, subjected to pressure, and cooled</b>	col.2 col.3 col.4	<b>47 - 55</b> <b>16 - 20</b> <b>4 - 67</b>

13. An ultra high molecular weight polyethylene block according to Claim 12, wherein said irradiation is gamma irradiation at a level of from about 1 MR to about 5 MR.

Word/Phrase	Support	
	Column	Line
<b>gamma irradiation</b>	<b>3</b>	<b>27 - 32</b>
<b>1 MR</b>	<b>5</b>	<b>46</b>
<b>5 MR</b>	<b>3</b>	<b>62 - 65</b>

14. An ultra high molecular weight polyethylene block according to Claim 12, wherein said heating is in a range of from about 50° C lower than the melting temperature of the crosslinked ultra high molecular weight polyethylene to about 80° C higher than the melting temperature.

Word/Phrase	Support	
	Column	Line
<b>heated to from about 50°C lower than the melting temperature to the melting temperature</b>	<b>4</b>	<b>5 - 9</b>
<b>heating to from the melting temperature to about 80° C higher than melting temperature</b>	<b>4</b>	<b>5 - 9</b>

15. An ultra high molecular weight polyethylene block according to Claim 14, wherein said heating is in a range of from about 50° C lower than the melting temperature of the crosslinked ultra high molecular weight polyethylene to the melting temperature.

Word/Phrase	Support	
	Column	Line
<b>heated to from about 50°C lower than the melting temperature to the melting temperature</b>	<b>4</b>	<b>5 - 9</b>

16. An ultra high molecular weight polyethylene block according to Claim 15, wherein said heating is in a range from the melting temperature of the crosslinked ultra high molecular weight polyethylene to about 80° C higher than the melting temperature.

Word/Phrase	Support	
	Column	Line
<b>heating to from the melting temperature to about 80° C higher than melting temperature</b>	4	<b>5 - 9</b>

17. An ultra high molecular weight polyethylene block according to Claim 12, wherein said pressure is applied so as to deform the block.

Word/Phrase	Support	
	Column	Line
<b>pressure applied to deform the block</b>	4	<b>17 - 29</b>

18. An ultra high molecular weight polyethylene block according to Claim 17, wherein deformation is in a direction perpendicular to the plane of compression.

Word/Phrase	Support	
	Column	Line
<b>deformation in a direction perpendicular to plane of compression</b>	3	<b>1 - 9</b>

19. An ultra high molecular weight polyethylene block according to Claim 17, wherein said block is cooled in a compression-deformed state under pressure.

Word/Phrase	Support	
	Column	Line
<b>block cooled in a compression-deformed state under pressure</b>	4	<b>34 - 37</b>

20. An ultra high molecular weight polyethylene block according to Claim 18, which has an orientation of crystal planes in a direction parallel to the compression plane.

Word/Phrase	Support	
	Column	Line
<b>orientation of crystal planes parallel to compression plane</b>	<b>5</b>	<b>18 - 20</b>

21. An ultra high molecular weight polyethylene block according to Claim 18, wherein said block, after compression, has a thickness of at least about 5 mm in a direction perpendicular to the compression plane.

Word/Phrase	Support	
	Column	Line
<b>thickness after compression of at least about 5mm</b>	<b>5</b>	<b>18 - 20</b>
		<b>25 - 31</b>

22. An ultra high molecular weight polyethylene block according to Claim 18, wherein said block, prior to compression, has a thickness of at least about 3 cm.

Word/Phrase	Support	
	Column	Line
<b>prior to compression has a thickness of greater than about 3 cm</b>	<b>5</b>	<b>18 - 20</b>

23. An ultra high molecular weight polyethylene block having a molecular weight of not less than about 5 million, having been crosslinked by irradiation at a level of at least about 1 MR and having been heated to a compression-deformable temperature, subjected to pressure, and cooled so as to orient the crystal planes of said polyethylene.

Word/Phrase	Support	
	Column	Line
<b>ultra high molecular weight polyethylene</b>	1 2	<b>8 - 11</b> <b>43 - 46</b>
<b>molecular weight of not less than about 5 million</b>	1 2 3	<b>67</b> 4 <b>22-24</b>
<b>block</b>	3	<b>25 - 26</b>
<b>crosslinking by irradiating</b>	2 3 4	<b>47-52</b> <b>27 - 67</b> <b>1 - 3</b>
<b>1 MR</b>	5	<b>46</b>
<b>heating, subjected to pressure, and cooled</b>	col.2 col.3 col.4	<b>47 - 55</b> <b>16 - 20</b> <b>4 - 67</b>
<b>heated to a compression deformable temperature</b>	4	<b>4 - 16</b>
<b>orientation of crystal planes</b>	5	<b>18 - 20</b>

24. An ultra high molecular weight polyethylene block according to Claim 23, wherein said pressure is applied so as to compression deform the block in a direction perpendicular to the compression plane, and wherein said block is cooled and solidified in a compression-deformed state under pressure.

Word/Phrase	Support	
	Column	Line
<b>deformation in a direction perpendicular to plane of compression</b>	3	<b>1 - 9</b>
<b>block cooled in a compression-deformed state under pressure</b>	4	<b>34 - 37</b>

25. An ultra high molecular weight polyethylene block according to Claim 24, wherein said block has an orientation of crystal planes in a direction parallel to the compression plane.

Word/Phrase	Support	
	Column	Line
<b>orientation of crystal planes parallel to compression plane</b>	5	<b>18 - 20</b>

26. An ultra high molecular weight polyethylene block according to Claim 23, wherein said heating is in a range of from about 50° C lower than the melting temperature of the crosslinked ultra high molecular weight polyethylene to about 80° C higher than the melting temperature.

Word/Phrase	Support	
	Column	Line
<b>heated to from about 50°C lower than the melting temperature to the melting temperature</b>	4	<b>5 - 9</b>
<b>heating to from the melting temperature to about 80° C higher than melting temperature</b>	4	<b>5 - 9</b>

27. An ultra high molecular weight polyethylene block according to Claim 26, wherein said heating is in a range of from about 50° C lower than the melting temperature of the crosslinked ultra high molecular weight polyethylene to the melting temperature.

Word/Phrase	Support	
	Column	Line
<b>heated to from about 50°C lower than the melting temperature to the melting temperature</b>	4	<b>5 - 9</b>

28. An ultra high molecular weight polyethylene block according to Claim 26, wherein said heating is in a range from the melting temperature of the crosslinked ultra high molecular weight polyethylene to about 80° C higher than the melting temperature.

Word/Phrase	Support	
	Column	Line
<b>heating to from the melting temperature to about 80° C higher than melting temperature</b>	4	<b>5 - 9</b>

29. An ultra high molecular weight polyethylene block according to Claim 23, wherein said block has been subjected to isothermal crystallization.

Word/Phrase	Support	
	Column	Line
<b>subjecting to isothermal treatment/crystallization</b>	4	<b>57 - 67</b>

30. An ultra high molecular weight polyethylene block according to Claim 23, wherein said block has been subjected to isothermal treatment at a temperature of from about 100°C to about 130°C for a period of from about 1 hour to about 20 hours.

Word/Phrase	Support	
	Column	Line
<b>heating to a temperature of 100°C to about 130°C</b>	4	<b>12 - 16</b>
<b>a period of from about 1 hour to about 20 hours.</b>	4	<b>57 - 60</b>

31. An ultra high molecular weight polyethylene block having a molecular weight not less than about 5 million, having been crosslinked by irradiation at a level of at least about 1 MR and having been heated to a temperature of from about 50° C lower than the melting temperature of the crosslinked ultra high molecular weight polyethylene to the melting temperature, subjected to pressure, and cooled.

Word/Phrase	Support	
	Column	Line
<b>ultra high molecular weight polyethylene</b>	<b>1</b>	<b>8 - 11</b>
	<b>2</b>	<b>43 - 46</b>
<b>molecular weight of not less than about 5 million</b>	<b>1</b>	<b>67</b>
	<b>2</b>	<b>4</b>
	<b>3</b>	<b>22-24</b>
<b>crosslinking by irradiating</b>	<b>2</b>	<b>47-52</b>
	<b>3</b>	<b>27 - 67</b>
	<b>4</b>	<b>1 - 3</b>
<b>1 MR</b>	<b>5</b>	<b>46</b>
<b>heating, subjected to pressure, and cooled</b>	<b>2</b>	<b>47 - 55</b>
	<b>3</b>	<b>16 - 20</b>
	<b>4</b>	<b>4 - 67</b>
<b>heated to from about 50°C lower than the melting temperature to the melting temperature</b>	<b>4</b>	<b>5 - 9</b>

32. An ultra high molecular weight polyethylene block according to Claim 31, wherein said irradiation is gamma irradiation at a level of from about 1 MR to about 5 MR.

Word/Phrase	Support	
	Column	Line
<b>gamma irradiation</b>	<b>3</b>	<b>27 - 32</b>
<b>1 MR</b>	<b>5</b>	<b>46</b>
<b>5 MR</b>	<b>3</b>	<b>62 - 65</b>

33. An ultra high molecular weight polyethylene block according to Claim 31, wherein said pressure is applied so as to deform the block.

Word/Phrase	Support	
	Column	Line
<b>pressure applied to deform the block</b>	4	17 - 29

34. An ultra high molecular weight polyethylene block according to Claim 33, wherein said deformation is in a direction perpendicular to the plane of compression.

Word/Phrase	Support	
	Column	Line
<b>deformation in a direction perpendicular to plane of compression</b>	3	1 - 9

35. An ultra high molecular weight polyethylene block according to Claim 34, wherein said block is cooled in a compression-deformed state under pressure.

Word/Phrase	Support	
	Column	Line
<b>block cooled in a compression-deformed state under pressure</b>	4	34 - 37

36. An ultra high molecular weight polyethylene block according to Claim 35, which has an orientation of crystal planes in a direction parallel to the compression plane.

Word/Phrase	Support	
	Column	Line
<b>orientation of crystal planes parallel to compression plane</b>	5	18 - 20

37. An ultra high molecular weight polyethylene block according to Claim 34, wherein said block, after compression, has a thickness of at least about 5 mm in a direction perpendicular to the compression plane.

Word/Phrase	Support	
	Column	Line
<b>thickness after compression of at least about 5mm</b>	<b>5</b>	<b>18 - 20</b>
		<b>25 - 31</b>

38. An ultra high molecular weight polyethylene block according to Claim 31, wherein said block has been subjected to isothermal crystallization.

Word/Phrase	Support	
	Column	Line
<b>subjecting to isothermal treatment/crystallization</b>	<b>4</b>	<b>57 - 67</b>

39. An ultra high molecular weight polyethylene block according to Claim 31, wherein said block has been subjected to isothermal treatment at a temperature of from about 100°C to about 130°C for a period of from about 1 hour to about 20 hours.

Word/Phrase	Support	
	Column	Line
<b>heating to a temperature of 100°C to about 130°C</b>	<b>4</b>	<b>12 - 16</b>
	<b>4</b>	<b>57 - 60</b>
<b>a period of from about 1 hour to about 20 hours.</b>	<b>4</b>	<b>60 - 61</b>

40. A method for producing an ultra high molecular weight polyethylene block, comprising:

- (a) crosslinking an ultra high molecular weight polyethylene block having a molecular weight not less than 5 million by irradiating the block with a high energy radiation at a level of at least about 1 MR;
- (b) heating said crosslinked block up to a compression deformable temperature;
- (c) subjecting said heated block to pressure; and
- (d) cooling said block.

Word/Phrase	Support	
	Column	Line
<b>ultra high molecular weight polyethylene</b>	1 2	<b>8 - 11</b> <b>43 - 46</b>
<b>molecular weight of not less than about 5 million</b>	1 2 3	<b>67</b> 4 <b>22-24</b>
<b>block</b>	3	<b>25 - 26</b>
<b>crosslinking by irradiating</b>	2 3 4	<b>47-52</b> <b>27 - 67</b> <b>1 - 3</b>
<b>1 MR</b>	5	<b>46</b>
<b>heating, subjected to pressure, and cooled</b>	2 3 4	<b>47 - 55</b> <b>16 - 20</b> <b>4 - 67</b>

41. A method for producing an ultra high molecular weight polyethylene block according to Claim 40, wherein said irradiation is gamma irradiation at a level of from about 1 MR to about 5 MR.

Word/Phrase	Support	
	Column	Line
<b>gamma irradiation</b>	3	<b>27 - 32</b>
<b>1 MR</b>	5	<b>46</b>
<b>5 MR</b>	3	<b>62 - 65</b>

42. A method for producing an ultra high molecular weight polyethylene block to Claim 40, wherein said heating is in a range of from about 50° C lower than the melting temperature of the crosslinked ultra high molecular weight polyethylene to about 80° C higher than the melting temperature.

Word/Phrase	Support	
	Column	Line
<b>heated to from about 50°C lower than the melting temperature to the melting temperature</b>	4	<b>5 – 9</b>
<b>heating to from the melting temperature to about 80° C higher than melting temperature</b>	4	<b>5 - 9</b>

43. A method for producing an ultra high molecular weight polyethylene block according to Claim 42, wherein said heating is in a range of from about 50° C lower than the melting temperature of the crosslinked ultra high molecular weight polyethylene to the melting temperature.

Word/Phrase	Support	
	Column	Line
<b>heated to from about 50°C lower than the melting temperature to the melting temperature</b>	4	<b>5 – 9</b>

44. A method for producing an ultra high molecular weight polyethylene block according to Claim 42, wherein said heating is in a range from the melting temperature of the crosslinked ultra high molecular weight polyethylene to about 80° C higher than the melting temperature.

Word/Phrase	Support	
	Column	Line
<b>heating to from the melting temperature to about 80° C higher than melting temperature</b>	4	<b>5 - 9</b>

45. A method for producing an ultra high molecular weight polyethylene block according to Claim 40, wherein said pressure is applied so as to deform the block.

Word/Phrase	Support	
	Column	Line
<b>pressure applied to deform the block</b>	4	<b>17 - 29</b>

46. A method for producing an ultra high molecular weight polyethylene block according to Claim 45, wherein said deformation is in a direction perpendicular to the plane of compression.

Word/Phrase	Support	
	Column	Line
<b>deformation in a direction perpendicular to plane of compression</b>	3	<b>1 - 9</b>

47. A method for producing an ultra high molecular weight polyethylene block according to Claim 46, wherein said block is cooled in a compression-deformed state under pressure.

Word/Phrase	Support	
	Column	Line
<b>block cooled in a compression-deformed state under pressure</b>	4	34 - 37

48. A method for producing an ultra high molecular weight polyethylene block according to Claim 47, which has an orientation of crystal planes in a direction parallel to the compression plane.

Word/Phrase	Support	
	Column	Line
<b>orientation of crystal planes parallel to compression plane</b>	5	18 - 20

49. A method for producing an ultra high molecular weight polyethylene block according to Claim 46, wherein said block, after compression, has a thickness of at least about 5 mm in a direction perpendicular to the compression plane.

Word/Phrase	Support	
	Column	Line
<b>thickness after compression of at least about 5mm</b>	5	18 - 20
	5	25 - 31

50. A method for producing an ultra high molecular weight polyethylene block according to Claim 46, wherein said block, prior to compression, has a thickness of at least about 3 cm.

Word/Phrase	Support	
	Column	Line
<b>prior to compression has a thickness of greater than about 3 cm</b>	<b>5</b>	<b>18 - 20</b>

51. A method for producing an ultra high molecular weight polyethylene block according to Claim 46, wherein said cooled block has a melting point of from about 135° C to about 155° C.

Word/Phrase	Support	
	Column	Line
<b>cooled block has melting point of from about 135° C to about 155° C</b>	<b>5</b>	<b>1 - 3</b>

52. A method of producing an ultra high molecular weight polyethylene block according to Claim 40, wherein after said subjecting to pressure step, said block is subjected to isothermal crystallization.

Word/Phrase	Support	
	Column	Line
<b>subjecting to isothermal treatment/crystallization</b>	<b>4</b>	<b>57 - 67</b>

53. A method for producing an ultra high molecular weight polyethylene block according to Claim 40, wherein after said subjecting to pressure step, said block is subjected to isothermal treatment at a temperature of from about 100°C to about 130°C for a period of from about 1 hour to about 20 hours.

Word/Phrase	Support	
	Column	Line
<b>heating to a temperature of 100°C to about 130°C</b>	4 4	12 - 16 57 - 60
<b>a period of from about 1 hour to about 20 hours.</b>	4	60 - 61

54. An artificial joint component for implantation in a human or other animal, wherein said component is formed from an ultra high molecular weight polyethylene block having a molecular weight not less than about 5 million, said block having been crosslinked by irradiation at a level of at least about 1 MR and having been heated, subjected to pressure, and cooled.

Word/Phrase	Support	
	Column	Line
<b>an artificial joint component for implantation in a human or animal</b>	1 2 7	13 - 32 43 - 46 44 - 59
<b>ultra high molecular weight polyethylene</b>	1 2	8 - 11 43 - 46
<b>block</b>	3	25 - 26
<b>molecular weight of not less than about 5 million</b>	1 2 3	67 4 22-24
<b>crosslinking by irradiating</b>	2 3 4	47-52 27 - 67 1 - 3
<b>1 MR</b>	5	46
<b>heating, subjected to pressure, and cooled</b>	2 3 4	47 - 55 16 - 20 4 - 67

55. An artificial joint component according to Claim 54, wherein said irradiation is gamma irradiation at a level of from about 1 MR to about 5 MR.

Word/Phrase	Support	
	Column	Line
<b>gamma irradiation</b>	<b>3</b>	<b>27 - 32</b>
<b>1 MR</b>	<b>5</b>	<b>46</b>
<b>5 MR</b>	<b>3</b>	<b>62 - 65</b>

56. An artificial joint component according to Claim 54, wherein said heating is in a range of from about 50° C lower than the melting temperature of the crosslinked ultra high molecular weight polyethylene to about 80° C higher than the melting temperature.

Word/Phrase	Support	
	Column	Line
<b>heated to from about 50°C lower than the melting temperature to the melting temperature</b>	<b>4</b>	<b>5 - 9</b>
<b>heating to from the melting temperature to about 80° C higher than melting temperature</b>	<b>4</b>	<b>5 - 9</b>

57. An artificial joint component according to Claim 56, wherein said heating is in a range of from about 50° C lower than the melting temperature of the crosslinked ultra high molecular weight polyethylene to the melting temperature.

Word/Phrase	Support	
	Column	Line
<b>heated to from about 50°C lower than the melting temperature to the melting temperature</b>	<b>4</b>	<b>5 - 9</b>

58. An artificial joint component according to Claim 56, wherein said heating is in a range from the melting temperature of the crosslinked ultra high molecular weight polyethylene to about 80° C higher than the melting temperature.

Word/Phrase	Support	
	Column	Line
<b>heating to from the melting temperature to about 80° C higher than melting temperature</b>	4	<b>5 - 9</b>

59. An artificial joint component according to Claim 54, wherein said pressure is applied so as to deform the block.

Word/Phrase	Support	
	Column	Line
<b>pressure applied to deform the block</b>	4	<b>17 - 29</b>

60. An artificial joint component according to Claim 59, wherein said deformation is in a direction perpendicular to the plane of compression.

Word/Phrase	Support	
	Column	Line
<b>deformation in a direction perpendicular to plane of compression</b>	3	<b>1 - 9</b>

61. An artificial joint component according to Claim 60, wherein said block is cooled in a compression-deformed state under pressure.

Word/Phrase	Support	
	Column	Line
<b>block cooled in a compression-deformed state under pressure</b>	4	<b>34 - 37</b>

62. An artificial joint component according to Claim 61, which has an orientation of crystal planes in a direction parallel to the compression plane.

Word/Phrase	Support	
	Column	Line
<b>orientation of crystal planes parallel to compression plane</b>	<b>5</b>	<b>18 - 20</b>

63. An artificial joint component according to Claim 60, wherein said block has a thickness, after compression, of at least about 5 mm in a direction perpendicular to the compression plane.

Word/Phrase	Support	
	Column	Line
<b>thickness after compression of at least about 5mm</b>	<b>5</b>	<b>18 - 20</b>
	<b>5</b>	<b>25 - 31</b>

64. An artificial joint component according to Claim 60, wherein said block, prior to compression, has a thickness of at least about 3 cm.

Word/Phrase	Support	
	Column	Line
<b>prior to compression has a thickness of greater than about 3 cm</b>	<b>5</b>	<b>18 - 20</b>

65. An artificial joint component according to Claim 54, wherein said irradiation is conducted in the presence of oxygen.

Word/Phrase	Support	
	Column	Line
<b>irradiation in the presence of oxygen</b>	<b>3</b>	<b>40 - 43</b>

66. An artificial joint component according to Claim 54, wherein said irradiation is conducted under a vacuum or in an inert atmosphere.

Word/Phrase	Support	
	Column	Line
<b>irradiation is conducted under a vacuum or in an inert atmosphere</b>	<b>3</b>	<b>40 - 43</b>

67. An artificial joint component according to Claim 54, wherein said block, after cooling, is processed to form said component.

Word/Phrase	Support	
	Column	Line
<b>processing to form a component</b>	<b>5</b>	<b>4 - 13</b>
	<b>7</b>	<b>51 - 56</b>

68. An artificial joint component according to Claim 65, wherein said block, after cooling, is processed by a process comprising cutting said block to form said component.

Word/Phrase	Support	
	Column	Line
<b>cutting said block to form said component</b>	<b>5</b>	<b>5 - 6</b>
	<b>5</b>	<b>11 - 13</b>

69. An artificial joint component according to Claim 54, wherein said block has been subjected to isothermal crystallization.

Word/Phrase	Support	
	Column	Line
<b>subjecting to isothermal treatment/crystallization</b>	<b>4</b>	<b>57 - 67</b>

70. An artificial joint component according to Claim 54, wherein said block has been subjected to isothermal treatment at a temperature of from about 100°C to about 130°C for a period of from about 1 hour to about 20 hours.

Word/Phrase	Support	
	Column	Line
<b>heating to a temperature of 100°C to about 130°C</b>	4 4	<b>12 - 16</b> <b>57 - 60</b>
<b>a period of from about 1 hour to about 20 hours.</b>	4	<b>60 - 61</b>

71. An artificial joint component for implantation in a human or other animal, wherein said component is formed from an ultra high molecular weight polyethylene block having a molecular weight not less than about 5 million, said block having been crosslinked by irradiation at a level of at least about 1 MR and having been heated to a temperature of from about 50° C lower than the melting temperature of the crosslinked ultra high molecular weight polyethylene to the melting temperature, subjected to pressure, and cooled.

Word/Phrase	Support	
	Column	Line
<b>an artificial joint component for implantation in a human or animal</b>	1	<b>13 - 32</b>
	2	<b>43 - 46</b>
	7	<b>44 - 59</b>
<b>ultra high molecular weight polyethylene</b>	1	<b>8 - 11</b>
	2	<b>43 - 46</b>
<b>block</b>	<b>3</b>	<b>25 - 26</b>
<b>molecular weight of not less than about 5 million</b>	1	<b>67</b>
	2	<b>4</b>
	3	<b>22-24</b>
<b>crosslinking by irradiating</b>	2	<b>47-52</b>
	3	<b>27 - 67</b>
	4	<b>1 - 3</b>
<b>1 MR</b>	<b>5</b>	<b>46</b>
<b>heating, subjected to pressure, and cooled</b>	2	<b>47 - 55</b>
	3	<b>16 - 20</b>
	4	<b>4 - 67</b>
<b>heated to from about 50°C lower than the melting temperature to the melting temperature</b>	<b>4</b>	<b>5 - 9</b>

72. An artificial joint component according to Claim 71, wherein said irradiation is gamma irradiation at a level of from about 1 MR to about 5 MR.

Word/Phrase	Support	
	Column	Line
<b>gamma irradiation</b>	<b>3</b>	<b>27 - 32</b>
<b>1 MR</b>	<b>5</b>	<b>46</b>
<b>5 MR</b>	<b>3</b>	<b>62 - 65</b>

73. An artificial joint component according to Claim 71, wherein said pressure is applied so as to deform the block.

Word/Phrase	Support	
	Column	Line
<b>pressure applied to deform the block</b>	4	17 - 29

74. An artificial joint component according to Claim 73, wherein said deformation is in a direction perpendicular to the plane of compression.

Word/Phrase	Support	
	Column	Line
<b>deformation in a direction perpendicular to plane of compression</b>	3	1 - 9

75. An artificial joint component according to Claim 74, wherein said block is cooled in a compression-deformed state under pressure.

Word/Phrase	Support	
	Column	Line
<b>block cooled in a compression-deformed state under pressure</b>	4	34 - 37

76. An artificial joint component according to Claim 75, which has an orientation of crystal planes in a direction parallel to the compression plane.

Word/Phrase	Support	
	Column	Line
<b>orientation of crystal planes parallel to compression plane</b>	5	18 - 20

77. An artificial joint component according to Claim 74, wherein said block has a thickness, after compression, of at least about 5 mm in a direction perpendicular to the compression plane.

Word/Phrase	Support	
	Column	Line
<b>thickness after compression of at least about 5mm</b>	<b>5</b>	<b>18 - 20</b>
	<b>5</b>	<b>25 - 31</b>

78. An artificial joint component according to Claim 71, wherein said irradiation is conducted in the presence of oxygen.

Word/Phrase	Support	
	Column	Line
<b>irradiation in the presence of oxygen</b>	<b>3</b>	<b>40 - 43</b>

79. An artificial joint component according to Claim 71, wherein said irradiation is conducted under a vacuum or in an inert atmosphere.

Word/Phrase	Support	
	Column	Line
<b>irradiation is conducted under a vacuum or in an inert atmosphere</b>	<b>3</b>	<b>40 - 43</b>

80. An artificial joint component according to Claim 71, wherein said block, after cooling, is processed to form said component.

Word/Phrase	Support	
	Column	Line
<b>processing to form a component</b>	<b>5</b>	<b>4 - 13</b>
	<b>7</b>	<b>51 - 56</b>

81. An artificial joint component according to Claim 78, wherein said block, after cooling, is processed by a process comprising cutting said block to form said component.

Word/Phrase	Support	
	Column	Line
<b>cutting said block to form said component</b>	<b>5</b>	<b>5 - 6</b>
		<b>11 - 13</b>

82. An artificial joint component according to Claim 71, wherein said block has been subjected to isothermal crystallization.

Word/Phrase	Support	
	Column	Line
<b>subjecting to isothermal treatment/crystallization</b>	<b>4</b>	<b>57 - 67</b>

83. An artificial joint component according to Claim 71, wherein said block has been subjected to isothermal treatment at a temperature of from about 100°C to about 130°C for a period of from about 1 hour to about 20 hours.

Word/Phrase	Support	
	Column	Line
<b>heating to a temperature of 100°C to about 130°C</b>	<b>4</b>	<b>12 - 16</b>
		<b>57 - 60</b>
<b>a period of from about 1 hour to about 20 hours.</b>	<b>4</b>	<b>60 - 61</b>

84. A method for producing an ultra high molecular weight polyethylene artificial joint component for implantation in a human or other animal, comprising:

- (a) crosslinking an ultra high molecular weight polyethylene block having a molecular weight not less than 5 million by irradiating the block with a high energy radiation at a level of at least about 1 MR;
- (b) heating said crosslinked block up to a compression deformable temperature;
- (c) subjecting said heated block to pressure;
- (d) cooling said block; and
- (e) processing said block to form said component.

Word/Phrase	Support	
	Column	Line
<b>artificial joint component for implantation in a human or animal</b>	1 2 7	13 - 32 43 - 46 44 - 59
<b>ultra high molecular weight polyethylene</b>	1 2	8 - 11 43 - 46
<b>block</b>	3	25 - 26
<b>molecular weight of not less than about 5 million</b>	1 2 3	67 4 22-24
<b>crosslinking by irradiating</b>	2 3 4	47-52 27 - 67 1 - 3
<b>1 MR</b>	5	46
<b>heating, subjected to pressure, and cooled</b>	col.2 col.3 col.4	47 - 55 16 - 20 4 - 67
<b>heated to a compression deformable temperature</b>	4	4 - 16
<b>processing to form a component</b>	5 7	4 - 13 51 - 56

85. A method for producing an ultra high molecular weight polyethylene artificial joint component according to Claim 84, wherein said irradiation is gamma irradiation at a level of from about 1 MR to about 5 MR.

Word/Phrase	Support	
	Column	Line
<b>gamma irradiation</b>	<b>3</b>	<b>27 - 32</b>
<b>1 MR</b>	<b>5</b>	<b>46</b>
<b>5 MR</b>	<b>3</b>	<b>62 - 65</b>

86. A method for producing an ultra high molecular weight polyethylene artificial joint component according to Claim 84, wherein said heating is in a range of from about 50° C lower than the melting temperature of the crosslinked ultra high molecular weight polyethylene to about 80° C higher than the melting temperature.

Word/Phrase	Support	
	Column	Line
<b>heated to from about 50°C lower than the melting temperature to the melting temperature</b>	<b>4</b>	<b>5 - 9</b>
<b>heating to from the melting temperature to about 80° C higher than melting temperature</b>	<b>4</b>	<b>5 - 9</b>

87. A method for producing an ultra high molecular weight polyethylene artificial joint component according to Claim 86, wherein said heating is in a range of from about 50° C lower than the melting temperature of the crosslinked ultra high molecular weight polyethylene to the melting temperature.

Word/Phrase	Support	
	Column	Line
<b>heated to from about 50°C lower than the melting temperature to the melting temperature</b>	<b>4</b>	<b>5 - 9</b>

88. A method for producing an ultra high molecular weight polyethylene artificial joint component according to Claim 86, wherein said heating is in a range from the melting temperature of the crosslinked ultra high molecular weight polyethylene to about 80° C higher than the melting temperature.

Word/Phrase	Support	
	Column	Line
<b>heating to from the melting temperature to about 80° C higher than melting temperature</b>	<b>4</b>	<b>5 - 9</b>

89. A method for producing an ultra high molecular weight polyethylene artificial joint component according to Claim 84, wherein said pressure is applied so as to deform the block.

Word/Phrase	Support	
	Column	Line
<b>pressure applied to deform the block</b>	<b>4</b>	<b>17 - 29</b>

90. A method for producing an ultra high molecular weight polyethylene artificial joint component according to Claim 89, wherein said deformation is in a direction perpendicular to the plane of compression.

Word/Phrase	Support	
	Column	Line
<b>deformation in a direction perpendicular to plane of compression</b>	<b>3</b>	<b>1 - 9</b>

91. A method for producing an ultra high molecular weight polyethylene artificial joint component according to Claim 90, wherein said block is cooled in a compression-deformed state under pressure.

Word/Phrase	Support	
	Column	Line
<b>block cooled in a compression-deformed state under pressure</b>	4	34 - 37

92. A method for producing an ultra high molecular weight polyethylene artificial joint component according to Claim 91, which has an orientation of crystal planes in a direction parallel to the compression plane.

Word/Phrase	Support	
	Column	Line
<b>orientation of crystal planes parallel to compression plane</b>	5	18 - 20

93. A method for producing an ultra high molecular weight polyethylene artificial joint component according to Claim 90, wherein said block has a thickness, after compression, of at least about 5 mm in a direction perpendicular to the compression plane.

Word/Phrase	Support	
	Column	Line
<b>thickness after compression of at least about 5mm</b>	5	18 - 20
	5	25 - 31

94. A method for producing an ultra high molecular weight polyethylene artificial joint component according to Claim 90, wherein said block, prior to compression, has a thickness of at least about 3 cm.

Word/Phrase	Support	
	Column	Line
<b>prior to compression has a thickness of greater than about 3 cm</b>	<b>5</b>	<b>18 - 20</b>

95. A method for producing an ultra high molecular weight polyethylene artificial joint component according to Claim 92, wherein said cooled block has a melting point of from about 135° C to about 155° C.

Word/Phrase	Support	
	Column	Line
<b>cooled block has melting point of from about 135° C to about 155° C</b>	<b>5</b>	<b>1 - 3</b>

96. A method for producing an ultra high molecular weight polyethylene artificial joint component according to Claim 84, wherein said irradiation is conducted in the presence of oxygen.

Word/Phrase	Support	
	Column	Line
<b>irradiation in the presence of oxygen</b>	<b>3</b>	<b>40 - 43</b>

97. A method for producing an ultra high molecular weight polyethylene artificial joint component according to Claim 84, wherein said irradiation is conducted under a vacuum or in an inert atmosphere.

Word/Phrase	Support	
	Column	Line
<b>irradiation is conducted under a vacuum or in an inert atmosphere</b>	<b>3</b>	<b>40 - 43</b>

98. A method for producing an ultra high molecular weight polyethylene artificial joint component according to Claim 84, additionally comprising processing said block, after cooling, to form said component.

Word/Phrase	Support	
	Column	Line
<b>processing to form a component</b>	<b>5</b> 7	<b>4 - 13</b> <b>51 - 56</b>

99. A method for producing an ultra high molecular weight polyethylene artificial joint component according to Claim 96, additionally comprising processing said block, after cooling, by a process comprising cutting said block to form said component.

Word/Phrase	Support	
	Column	Line
<b>cutting said block to form said component</b>	<b>5</b> 5	<b>5 - 6</b> <b>11 - 13</b>

100. A method of producing an ultra high molecular weight polyethylene artificial joint component according to Claim 84, wherein after said subjecting to pressure step, said block is subjected to isothermal crystallization.

Word/Phrase	Support	
	Column	Line
<b>subjecting to isothermal treatment/crystallization</b>	<b>4</b>	<b>57 - 67</b>

101. A method for producing an ultra high molecular weight polyethylene artificial joint component according to Claim 84, wherein after said subjecting to pressure step, said block is subjected to isothermal treatment at a temperature of from about 100°C to about 130°C for a period of from about 1 hour to about 20 hours.

Word/Phrase	Support	
	Column	Line
<b>subjecting to isothermal treatment</b>	<b>4</b>	<b>57 - 67</b>
<b>heating to a temperature of 100°C to about 130°C</b>	<b>4</b>	<b>12 - 16</b>
	<b>4</b>	<b>57 - 60</b>
<b>a period of from about 1 hour to about 20 hours.</b>	<b>4</b>	<b>60 - 61</b>

102. An ultra high molecular weight polyethylene block having been crosslinked by irradiation, subjected to pressure at a deformation temperature, and subjected to isothermal treatment.

Word/Phrase	Support	
	Column	Line
<b>ultra high molecular weight polyethylene</b>	<b>1</b>	<b>8 - 11</b>
	<b>2</b>	<b>43 - 46</b>
<b>block</b>	<b>3</b>	<b>25 - 26</b>
<b>crosslinking by irradiating</b>	<b>2</b>	<b>47-52</b>
	<b>3</b>	<b>27 - 67</b>
	<b>4</b>	<b>1 - 3</b>
<b>subjected to pressure at a deformable temperature</b>	<b>2</b>	<b>52 - 54</b>
	<b>3</b>	<b>16 - 20</b>
	<b>4</b>	<b>17 - 33</b>
<b>subjecting to isothermal treatment</b>	<b>4</b>	<b>57 - 67</b>

103. An ultra high molecular weight polyethylene block according to Claim 102, wherein said irradiation is gamma irradiation at a level of at least about 1 MR.

Word/Phrase	Support	
	Column	Line
<b>gamma irradiation</b>	<b>3</b>	<b>27 - 32</b>
<b>1 MR</b>	<b>5</b>	<b>46</b>

104. An ultra high molecular weight polyethylene block according to Claim 102, wherein said deformation temperature is in a range of from about 50° C lower than the melting temperature of the crosslinked ultra high molecular weight polyethylene to about 80° C higher than the melting temperature.

Word/Phrase	Support	
	Column	Line
<b>heated to from about 50°C lower than the melting temperature to the melting temperature</b>	4	<b>5 – 9</b>
<b>heating to from the melting temperature to about 80° C higher than melting temperature</b>	4	<b>5 - 9</b>

105. An ultra high molecular weight polyethylene block according to Claim 104, wherein said deformation temperature is in a range of from about 50° C lower than the melting temperature of the crosslinked ultra high molecular weight polyethylene to the melting temperature.

Word/Phrase	Support	
	Column	Line
<b>heated to from about 50°C lower than the melting temperature to the melting temperature</b>	4	<b>5 – 9</b>

106. An ultra high molecular weight polyethylene block according to Claim 104, wherein said deformation temperature is in a range from the melting temperature of the crosslinked ultra high molecular weight polyethylene to about 80° C higher than the melting temperature.

Word/Phrase	Support	
	Column	Line
<b>heating to from the melting temperature to about 80° C higher than melting temperature</b>	4	5 - 9

107. An ultra high molecular weight polyethylene block according to Claim 102, wherein said pressure is applied so as to deform the block.

Word/Phrase	Support	
	Column	Line
<b>pressure applied to deform the block</b>	4	17 - 29

108. An ultra high molecular weight polyethylene block according to Claim 107, wherein said block is cooled in a compression-deformed state under pressure.

Word/Phrase	Support	
	Column	Line
<b>block cooled in a compression-deformed state under pressure</b>	4	34 - 37

109. An ultra high molecular weight polyethylene block according to Claim 108, which has an orientation of crystal planes in a direction parallel to the compression plane.

Word/Phrase	Support	
	Column	Line
<b>orientation of crystal planes parallel to compression plane</b>	5	18 - 20

110. An ultra high molecular weight polyethylene block according to Claim 102, wherein said isothermal treatment is at a temperature of from about 100° C to about 130° C for a period of from about 1 hour to about 20 hours.

Word/Phrase	Support	
	Column	Line
<b>heating to a temperature of 100°C to about 130°C</b>	4 4	12 - 16 57 - 60
<b>a period of from about 1 hour to about 20 hours.</b>	4	60 - 61

111. A method for producing an ultra high molecular weight polyethylene block, comprising:

- (a) crosslinking an ultra high molecular weight polyethylene block having a molecular weight not less than 5 million by irradiating the block with a high energy radiation at a level of at least about 1 MR;
- (b) subjecting said block to pressure at a deformation temperature; and
- (c) subjecting said block to isothermal treatment.

Word/Phrase	Support	
	Column	Line
<b>ultra high molecular weight polyethylene</b>	1 2	8 - 11 43 - 46
<b>block</b>	3	25 - 26
<b>crosslinking by irradiating</b>	2 3 4	47-52 27 - 67 1 - 3
<b>1 MR</b>	5	46
<b>subjected to pressure at a deformable temperature</b>	2 3 4	52 - 54 16 - 20 17 - 33
<b>subjecting to isothermal treatment</b>	4	57 - 67

112. A method for producing an ultra high molecular weight polyethylene block according to Claim 111, wherein said irradiation is gamma irradiation at a level of at least about 1 MR.

Word/Phrase	Support	
	Column	Line
<b>gamma irradiation</b>	<b>3</b>	<b>27 - 32</b>
<b>1 MR</b>	<b>5</b>	<b>46</b>

113. A method for producing an ultra high molecular weight polyethylene block to Claim 111, wherein said deformation temperature is in a range of from about 50° C lower than the melting temperature of the crosslinked ultra high molecular weight polyethylene to about 80° C higher than the melting temperature.

Word/Phrase	Support	
	Column	Line
<b>heated to from about 50°C lower than the melting temperature to the melting temperature</b>	<b>4</b>	<b>5 - 9</b>
<b>heating to from the melting temperature to about 80° C higher than melting temperature</b>	<b>4</b>	<b>5 - 9</b>

114. A method for producing an ultra high molecular weight polyethylene block according to Claim 113, wherein said deformation temperature is in a range of from about 50° C lower than the melting temperature of the crosslinked ultra high molecular weight polyethylene to the melting temperature.

Word/Phrase	Support	
	Column	Line
<b>heated to from about 50°C lower than the melting temperature to the melting temperature</b>	<b>4</b>	<b>5 - 9</b>

115. A method for producing an ultra high molecular weight polyethylene block according to Claim 113, wherein said deformation temperature is in a range from the melting temperature of the crosslinked ultra high molecular weight polyethylene to about 80° C higher than the melting temperature.

Word/Phrase	Support	
	Column	Line
<b>heating to from the melting temperature to about 80° C higher than melting temperature</b>	4	<b>5 - 9</b>

116. A method for producing an ultra high molecular weight polyethylene block according to Claim 111, wherein said pressure is applied so as to deform the block.

Word/Phrase	Support	
	Column	Line
<b>pressure applied to deform the block</b>	4	<b>17 - 29</b>

117. A method for producing an ultra high molecular weight polyethylene block according to Claim 116, wherein said block is cooled in a compression-deformed state under pressure.

Word/Phrase	Support	
	Column	Line
<b>block cooled in a compression-deformed state under pressure</b>	4	<b>34 - 37</b>

118. A method for producing an ultra high molecular weight polyethylene block according to Claim 111, wherein said isothermal treatment is at a temperature of from about 100° C to about 130° C for a period of from about 1 hour to about 20 hours.

Word/Phrase	Support	
	Column	Line
<b>heating to a temperature of 100°C to about 130°C</b>	4 4	12 - 16 57 - 60
<b>a period of from about 1 hour to about 20 hours.</b>	4	60 - 61

119. An artificial joint component for implantation in a human or other animal, wherein said component is formed from an ultra high molecular weight polyethylene block having been crosslinked by irradiation, subjected to pressure at a deformation temperature, and subjected to isothermal treatment.

Word/Phrase	Support	
	Column	Line
<b>artificial joint component for implantation in a human or animal</b>	1 2 7	13 - 32 43 - 46 44 - 59
<b>ultra high molecular weight polyethylene</b>	1 2	8 - 11 43 - 46
<b>block</b>	3	25 - 26
<b>crosslinking by irradiating</b>	2 3 4	47-52 27 - 67 1 - 3
<b>subjected to pressure at a deformable temperature</b>	2 3 4	52 - 54 16 - 20 17 - 33
<b>subjecting to isothermal treatment</b>	4	57 - 67

120. An artificial joint component according to Claim 119, wherein said irradiation is gamma irradiation at a level of at least about about 1 MR.

Word/Phrase	Support	
	Column	Line
<b>gamma irradiation</b>	<b>3</b>	<b>27 - 32</b>
<b>1 MR</b>	<b>5</b>	<b>46</b>

121. An artificial joint component according to Claim 119, wherein said deformation temperature is in a range of from about 50° C lower than the melting temperature of the crosslinked ultra high molecular weight polyethylene to about 80° C higher than the melting temperature.

Word/Phrase	Support	
	Column	Line
<b>heated to from about 50°C lower than the melting temperature to the melting temperature</b>	<b>4</b>	<b>5 - 9</b>
<b>heating to from the melting temperature to about 80° C higher than melting temperature</b>	<b>4</b>	<b>5 - 9</b>

122. An artificial joint component according to Claim 121, wherein said deformation temperature is in a range of from about 50° C lower than the melting temperature of the crosslinked ultra high molecular weight polyethylene to the melting temperature.

Word/Phrase	Support	
	Column	Line
<b>heated to from about 50°C lower than the melting temperature to the melting temperature</b>	<b>4</b>	<b>5 - 9</b>

123. An artificial joint component according to Claim 121, wherein said deformation temperature is in a range from the melting temperature of the crosslinked ultra high molecular weight polyethylene to about 80° C higher than the melting temperature.

Word/Phrase	Support	
	Column	Line
<b>heating to from the melting temperature to about 80° C higher than melting temperature</b>	<b>4</b>	<b>5 - 9</b>

124. An artificial joint component according to Claim 119, wherein said pressure is applied so as to deform the block.

Word/Phrase	Support	
	Column	Line
<b>pressure applied to deform the block</b>	<b>4</b>	<b>17 - 29</b>

125. An artificial joint component according to Claim 124, wherein said block is cooled in a compression-deformed state under pressure.

Word/Phrase	Support	
	Column	Line
<b>block cooled in a compression-deformed state under pressure</b>	<b>4</b>	<b>34 - 37</b>

126. An artificial joint component according to Claim 119, wherein said irradiation is conducted in the presence of oxygen.

Word/Phrase	Support	
	Column	Line
<b>irradiation in the presence of oxygen</b>	<b>3</b>	<b>40 - 43</b>

127. An artificial joint component according to Claim 126, wherein, after said isothermal treatment, said block is processed by a process comprising cutting said block to form said component.

Word/Phrase	Support	
	Column	Line
<b>cutting said block to form said component</b>	<b>5</b> <b>5</b>	<b>5 - 6</b> <b>11 - 13</b>

128. A method for producing an ultra high molecular weight polyethylene artificial joint component for implantation in a human or other animal, comprising:

- (a) crosslinking an ultra high molecular weight polyethylene block by irradiating the block with a high energy radiation;
- (b) subjecting said heated block to pressure at a deformation temperature; and
- (c) subjecting said block to isothermal treatment; and
- (d) processing said block to form said component.

Word/Phrase	Support	
	Column	Line
<b>artificial joint component for implantation in a human or animal</b>	<b>1</b> <b>2</b> <b>7</b>	<b>13 - 32</b> <b>43 - 46</b> <b>44 - 59</b>
<b>ultra high molecular weight polyethylene</b>	<b>1</b> <b>2</b>	<b>8 - 11</b> <b>43 - 46</b>
<b>block</b>	<b>3</b>	<b>25 - 26</b>
<b>crosslinking by irradiating</b>	<b>2</b> <b>3</b> <b>4</b>	<b>47-52</b> <b>27 - 67</b> <b>1 - 3</b>
<b>subjected to pressure at a deformable temperature</b>	<b>2</b> <b>3</b> <b>4</b>	<b>52 - 54</b> <b>16 - 20</b> <b>17 - 33</b>
<b>subjecting to isothermal treatment</b>	<b>4</b>	<b>57 - 67</b>
<b>processing to form a component</b>	<b>5</b> <b>7</b>	<b>4 - 13</b> <b>51 - 56</b>

129. A method for producing an ultra high molecular weight polyethylene artificial joint component according to Claim 128, wherein said irradiation is gamma irradiation at a level of at least about 1 MR.

Word/Phrase	Support	
	Column	Line
<b>gamma irradiation</b>	<b>3</b>	<b>27 - 32</b>
<b>1 MR</b>	<b>5</b>	<b>46</b>

130. A method for producing an ultra high molecular weight polyethylene artificial joint component according to Claim 128, wherein said deformation temperature is in a range of from about 50° C lower than the melting temperature of the crosslinked ultra high molecular weight polyethylene to about 80° C higher than the melting temperature.

Word/Phrase	Support	
	Column	Line
<b>heated to from about 50°C lower than the melting temperature to the melting temperature</b>	<b>4</b>	<b>5 - 9</b>
<b>heating to from the melting temperature to about 80° C higher than melting temperature</b>	<b>4</b>	<b>5 - 9</b>

131. A method for producing an ultra high molecular weight polyethylene artificial joint component according to Claim 130, wherein said deformation temperature is in a range of from about 50° C lower than the melting temperature of the crosslinked ultra high molecular weight polyethylene to the melting temperature.

Word/Phrase	Support	
	Column	Line
<b>heated to from about 50°C lower than the melting temperature to the melting temperature</b>	<b>4</b>	<b>5 - 9</b>

132. A method for producing an ultra high molecular weight polyethylene artificial joint component according to Claim 130, wherein said deformation temperature is in a range from the melting temperature of the crosslinked ultra high molecular weight polyethylene to about 80° C higher than the melting temperature.

Word/Phrase	Support	
	Column	Line
<b>heating to from the melting temperature to about 80° C higher than melting temperature</b>	<b>4</b>	<b>5 - 9</b>

133. A method for producing an ultra high molecular weight polyethylene artificial joint component according to Claim 128, wherein said pressure is applied so as to deform the block.

Word/Phrase	Support	
	Column	Line
<b>pressure applied to deform the block</b>	<b>4</b>	<b>17 - 29</b>

134. A method for producing an ultra high molecular weight polyethylene artificial joint component according to Claim 128, wherein said irradiation is conducted in the presence of oxygen.

Word/Phrase	Support	
	Column	Line
<b>irradiation in the presence of oxygen</b>	<b>3</b>	<b>40 - 43</b>

135. A method for producing an ultra high molecular weight polyethylene artificial joint component according to Claim 134, wherein said processing step comprises cutting said block to form said component.

Word/Phrase	Support	
	Column	Line
<b>cutting said block to form said component</b>	<b>5</b> <b>5</b>	<b>5 - 6</b> <b>11 - 13</b>

136. A method for producing an ultra high molecular weight polyethylene block according to Claim 128, wherein said isothermal treatment is at a temperature of from about 100° C to about 130° C for a period of from about 1 hour to about 20 hours.

Word/Phrase	Support	
	Column	Line
<b>heating to a temperature of 100°C to about 130°C</b>	<b>4</b> <b>4</b>	<b>12 - 16</b> <b>57 - 60</b>
<b>a period of from about 1 hour to about 20 hours.</b>	<b>4</b>	<b>60 - 61</b>